

AMENDMENTS TO THE SPECIFICATION

1. Please insert a section title of "Cross Reference to Related Applications or Priority Claim" just under the title of the invention, and amend the first paragraph on page 1 as indicated below, such that the new Cross Reference to Related Applications or Priority Claim section read as follows.

Cross Reference to Related Applications or Priority Claim

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This application is a national phase of PCT/FR00/02634 which was filed on September 22, 2000, which claims priority based on French Patent Application No. 99 11883, filed September 23, 1999, and was not published in English. This application is related to co-pending U.S. patent application Serial No. 09/926,328, which is now U.S. Pat. No. 6,727,503 issued April 27, 2004, entitled "Two Dimensional Ionizing Radiation Detector and Method for the Production Thereof" in the name of Jean-Louis Gerstenmayer, a co-inventor of this application, and commonly owned with this application, which is a national phase of PCT/FR00/00917 filed on April 11, 2000 which claims priority based on French Patent Application No. 99 04725, filed April 15, 1999, and was not published in English.

2. Please replace a paragraph of page 4, lines 18-20 with the following amended paragraph:

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Preferably, a polymer is chosen in which the mobility of the electric charges is higher than $10^{-6} \text{ cm}^2/\text{V/s}$ $\text{cm}^2/\text{V/see}$.

3. Please replace a paragraph of page 5, lines 4-7 with the following amended paragraph:

Preferably, the guest particles have a mean atomic number higher than 14, an average density greater than 2 g.cm^{-3} ~~gm.cm⁻³~~ and an average relative permittivity greater than 10.

4. Please replace a paragraph of page 8, lines 8-10 with the following amended paragraph:

Preferably one uses a polymer in which the electric charges have a mobility which is greater than $10^{-6} \text{ cm}^2/\text{V/s}$ ~~cm²/V/see~~.

5. Please replace three consecutive paragraphs of page 8, lines 18- 25 with the following amended paragraphs:

Such polymers are characterised by a high mobility of holes, of the order of $10^{-4} \text{ cm}^2/\text{V/s}$ ~~cm²/V/see~~ to $1 \text{ cm}^2/\text{V/s}$ ~~cm²/V/see~~.

One can also use polyvinyl carbazole which is characterised by a mobility of holes which is greater than $10^{-6} \text{ cm}^2/\text{V/s}$ ~~cm²/V/see~~.

An insulating polymer such as isooctane, with a high electron mobility, of the order of $10^{-4} \text{ cm}^2/\text{V/s}$ ~~cm²/V/see~~ to $1 \text{ cm}^2/\text{V/s}$ ~~cm²/V/see~~ can also be used.

6. Please replace a paragraph of page 9, lines 7-9 with the following amended paragraph:

56
Preferably, one uses guest particles with a mean atomic number higher than 14, an average density higher than 2 g/cm^3 ~~gm/cm^3~~ and an average relative permittivity higher than 10.